AMENDMENTS TO THE SPECIFICATION

Please amend the specification as set forth below.

Please amend the following paragraph beginning at page 11, line 21 as shown below:

As a result, a wavelet coefficient $Wf_{1\,2}(n)$ for scale 2 is calculated from $Sf_1(n)$ by
$$Wf_2(n) = Sf_1(n-2) - Sf_1(n+2).$$

Please amend the following paragraph beginning at page 12, line 4 as shown below:

The high-pass filter 1_61 and the high-pass filter 4_64 have the filter coefficients shown in Fig. 5(a) and Fig. 5(b), respectively, and carry out one-dimensional filter processing of each line in the horizontal direction of the image. The high-pass filter 2_62 and the high-pass filter 3_63 have the filter coefficients shown in Fig. 5(a) and Fig. 5(b), respectively, and carry out one-dimensional filter processing of each line in the vertical direction of the image. The low-pass filter 65 is realized by carrying out filter processing of each line in the horizontal direction and then each line in the vertical direction with the filter coefficients shown in Fig. 5 2(c).

Please amend the following paragraph beginning at page 18, line 15 as shown below:

The image processing program removes noise and emphasizes the contrast of contour portions of an input image by causing a computer to execute the following processing. First, the processing section 101 reads an input image data from the input image file 151 of the storage section 105 or the input

section 102 (step S1). The processing section 101 obtains
first and second conversion coefficients having different
magnitude relationships between an image contour portion and
noise by subjecting the input image data to discrete wavelet
conversion, and obtains an emphasis control amount based on
the square of the first conversion coefficient, the products
of the first and second conversion coefficients, and a
predetermined setting value (step S2). The processing section
101 stores the obtained emphasis control amount in the
emphasis-control-amount file 152, as necessary. The
processing section 101 outputs the product of the emphasis
control amount and a high-frequency component of the input
image data (step S3). The processing section 101
~~causes an adding section to~~ add_s the product and the input image data to
obtain output image data (step S4). The processing section
101 stores the obtained output image data in the output image
file 153 of the storage section 105 and/or outputs it to the
output section 103 or to the display section 104 (step S5).
The processing section 101 can also obtain further output
image data by recursively performing the above-described image
processing based on the obtained output image data.